## WHAT IS CLAIMED IS:

- 1. A wireless communication processing system for performing wireless communication processing operation between a plurality of apparatuses, comprising:
- a first wireless communication processing device provided to first one of said plurality of apparatuses and having a first unique ID; and
- a second wireless communication processing device provided to second one of said plurality of apparatuses and having a second unique ID,

wherein, in response to a connection request issued from a third wireless communication processing device provided to an apparatus other than said plurality of apparatuses to said first wireless communication processing device, the first wireless communication processing device issues a connection permission, but when ending in authentication failure, the first wireless communication processing device transmits the unique ID of the third wireless communication processing device as a third unique ID to said second wireless communication processing device as an authentication-failure or unauthorized-apparatus unique ID, the second wireless communication processing device receives the third unique ID and, when receiving a connection request from said third wireless communication processing device, the second wireless communication processing device rejects the connection.

- 2. A wireless communication processing system for performing wireless communication processing operation between a plurality of apparatuses, comprising:
- a first wireless communication processing device provided to first one of said plurality of apparatuses and having a first unique ID; and
- a second wireless communication processing device provided to second one of said plurality of apparatuses and having a second unique ID,

wherein, when a connection request is issued from a third wireless communication processing device provided to an apparatus other than said plurality of apparatuses to said first wireless communication processing device, the first wireless communication processing device transmits the unique ID of the third wireless communication processing device as a third unique ID to said second wireless communication processing device as a connection request unique ID, the second wireless communication processing device receives the third unique ID, displays presence of the connection request from said third wireless communication processing device or informs thereof, and transmits connection permission or rejection information to said first wireless communication processing device, the first wireless communication processing device receives the connection permission or rejection information and transmits the information to

said third wireless communication processing device.

3. A wireless communication processing device for performing wireless communication processing operation between a plurality of apparatuses, comprising:

wireless communication means provided to said plurality of apparatuses and capable of transmitting and receiving unique ID's;

memory means for storing a received unique ID and an authenticating passkey therein;

control means controllably for issuing a connection permission on the basis of connection request information from an apparatus other than said plurality of apparatuses received at said wireless communication means and, when ending in authentication failure, for transmitting the unique ID of the apparatus other than the plurality of apparatuses to other ones of said plurality of apparatuses as an authentication—failure or unauthorized—apparatus unique ID.

4. A wireless communication processing device for performing wireless communication processing operation between a plurality of apparatuses, comprising:

wireless communication means provided to said plurality of apparatuses and capable of transmitting and receiving unique ID's;

memory means for storing a received unique ID

and authenticating passkey therein; and

control means controllably for issuing a connection permission on the basis of connection request information other than an apparatus other than said plurality of apparatuses received at said wireless communication means and, when ending in authentication failure, for transmitting the unique ID of the apparatus other than the plurality of apparatuses to other ones of said plurality of apparatuses as an authentication-failure or unauthorized-apparatus unique ID and, when receiving the transmitted unique ID, for rejecting the connection from the apparatus other than the plurality of apparatuses.

5. A wireless communication processing device for performing wireless communication processing operation between a plurality of apparatuses, comprising:

wireless communication means provided to said plurality of apparatuses and capable of transmitting and receiving unique ID's;

memory means for storing a received unique ID and authenticating passkey therein; and

control means, when said wireless communication means receives connection request information from an apparatus other than the plurality of apparatuses, controllably for transmitting the unique ID of the apparatus other than the plurality of apparatuses to other ones of said plurality of

apparatuses as a connection request unique ID.

- 6. The wireless communication processing device as set forth in claim 3, wherein said control means controllably stores a frequency of authentication failure in said memory means and, when said frequency of authentication failure reaches a predetermined value, transmits the unique ID of the apparatus other than said plurality of apparatuses to other ones of said plurality of apparatuses as a authentication—failure or unauthorized—apparatus unique ID.
- 7. A wireless communication processing device for performing wireless communication processing operation between a plurality of apparatuses, comprising:

wireless communication means provided to said plurality of apparatuses and capable of transmitting and receiving unique ID's;

memory means for storing a received unique ID and an authenticating passkey therein; and

control means controllably for issuing a connection permission on the basis of connection request information from the apparatus other than said plurality of apparatuses received at said wireless communication means and, when ending in successful authentication, for storing the unique ID of the apparatus other than the plurality of apparatuses to said memory means as a connection permission unique Id.

8. A wireless communication processing method

for performing wireless communication processing operation between a plurality of apparatuses, comprising the steps of:

storing a received unique ID and an authenticating passkey;

issuing a connection permission on the basis of connection request information from an apparatus other than said plurality of apparatuses;

when the connection permission is issued and authentication ends in failure, transmitting the unique ID of the apparatus other than said plurality of apparatuses to other ones of said plurality of apparatuses as an authentication-failure or unauthorized-apparatus unique ID; and

receiving said transmitted unique ID and rejecting the connection from the apparatus other than said plurality of apparatuses.

9. A wireless communication processing method for performing wireless communication processing operation, comprising the steps of:

storing a received unique ID and an authenticating passkey therein;

receiving connection request information from an apparatus other than said plurality of apparatuses and transmitting the unique ID of the apparatus other than the plurality of apparatuses to other ones of said plurality of apparatuses as a connection request unique ID; and

receiving the transmitted connection request unique ID, displaying presence of the connection request or informing thereof, and transmitting connection permission or rejection information to the apparatus other than said plurality of apparatuses.